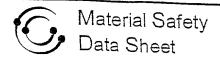


ATTACHMENT A

Material Safety Data Sheet for

MICROPLANARTM CMP9000TM

sold by EKC Technology, Inc. of Hayward, CA



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: General Use:

Product Description:

MICROPLANAR™ CMP9000™ Metal CMP

Slurry

MANUFACTURER: EKC Technology, inc. 2520 Barrington Court Hayward, CA 94545 (510) 784-9105

EMERGENCY PHONE NUMBERS:

(800) 424-9300 CHEMTREC

24 Hours/day, 7 days/week

2. COMPOSITION / INFORMATION ON INGREDIENTS

Colloidal Silica

WT.%

CAS Registry # Trade Secret

EXPOSURE LIMITS 8 hrs. TWA (mg/m3)

OSHA PEL

ACGIH TLV

OTHER

Colloidal Silica

2.67

10

None

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Translucent white slurry
May cause eye, skin, and respiratory tract irritation

POTENTIAL HEALTH EFFECTS

INHALATION

No adverse effects known.

EYE CONTACT

May cause irritation with temporary discomfort, mild redness, and dryness.

SKIN CONTACT

May cause imitation and dryness.

INGESTION

No adverse effects known.

TARGET ORGANS

Skin, eyes

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Overexposure may aggravate existing respiratory or skin conditions.

CARCINOGENICITY

National Toxicology Program (NTP):

Not listed



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IARC Monographs:

Not listed

OSHA: ACGIH: Not listed Not listed

4. FIRST AID MEASURES

INHALATION

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

EYE CONTACT

Flush eyes with water. If redness and irritation persist, contact a physician.

SKIN CONTACT

Flush skin with water. If redness and irritation persist, contact a physician.

INGESTION

Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

NOTE TO PHYSICIAN

Treat symptomatically as required by the condition of the patient.

5. FIRE FIGHTING MEASURES

Flashpoint:

Not flammable

Method:

None

Flammable Limits in Air

Lower: None

% by volume

Upper: None

Autoignition Temperature:

Not available

Extinguishing Media.

Material is not flammable.

UNUSUAL FIRE AND EXPLOSION HAZARDS

None known.

FIRE FIGHTING INSTRUCTIONS

Use water spray to cool containers and fire exposed surfaces. Shut off fuel to fire if possible to do so without hazard.

FIRE FIGHTING EQUIPMENT

Standard fire-fighting bunker gear.

HAZARDOUS COMBUSTION PRODUCTS

None known

6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES

If material becomes dry, wet before removal. Contain spill with absorbent material. Transfer absorbent and other containnated materials to a UN approved covered container for disposal. Consult with Federal, State, and local regulatory agencies to determine acceptable clean-up level. Comply with Federal, State, and local regulations on reporting releases.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE

Storage in a cool, dry, well-ventilated area at 40° - 90°F (5° - 32°C) is recommended.

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GENERAL

Keep in original closed containers.

Prevent skin and eye contact.

Thorough showering at the end of the work shift is strongly recommended.

Work clothes should be laundered daily.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION

RESPIRATORY PROTECTION

No respiratory protection is normally required. However, if material becomes dry and dust is present, use a NIOSH approved dust respirator

PROTECTIVE CLOTHING

Prevent skin contact. Use rubber or latex gloves.

EYE/FACE PROTECTION

Use safety glasses or chemical goggles.

PHYSICAL AND CHEMICAL PROPERTIES 9.

Vapor Pressure: Vapor Density: Specific Gravity: Not available Not available

Appearance: 1.2-1.3 Boiling Point: Odor:

Freezing Point: 32°F (0°C) White 212°F (0°C)

Evaporation Rate: Not available Sciubility in Water. None

Physical State:

None Liquid dispersion

4-9

10. STABILITY AND REACTIVITY

GENERAL

This product is stable at normal temperatures and conditions of storage

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID Freezing.

HAZARDOUS DECOMPOSITION

None known

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HAZARDOUS POLYMERIZATION

Will not normally occur.

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11. TOXICOLOGICAL INFORMATION

INHALATION

No additional information available.

EYE CONTACT

No additional information available.

SKIN CONTACT

No additional information available.

INGESTION

LD₅₀, rat: 3160 mg/kg, practically non-toxic.

GENOTOXICITY

No information available.

TARGET ORGANS

Skin, eyes, lungs.

12. ECOLOGICAL INFORMATION

FATE

No information available

AQUATIC TOXICITY

No information available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Consult 40 CFR, Parts 261 and 268, State, and local regulations for guidance on disposal of this product. Incineration at a facility with proper Federal and State issued permits is the recommended method for disposal.

CONTAINER DISPOSAL

Empty containers retain product residue. Observe all hazard precautions. Keep away from heat, sparks, and flames. Do not distribute, make available, or reuse empty containers except for storage and shipment of original product. Remove all hazardous product residue, and puncture or otherwise destroy empty containers before disposal. Consult 40 CFR, Parts 261 and 268 for guidance on disposal.

14. TRANSPORT INFORMATION

DOT/IMO/ICAO/IATA

Proper shipping name Not Regulated

15. REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Components of this product are listed on the TSCA Inventory.

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SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 Hazard Categories

None

313

This product is not subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986

and of 40 CFR 372.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION AND LIABILITY ACT)

Reportable Quantity (RQ):

None

We recommend you contact local authorities to determine if there may be other local reporting requirements.

16. OTHER INFORMATION

Exposure to Microplanar™ CMP9000™ should be kept to the lowest level possible. This material is for industrial use. Use only under the supervision of a technically qualified individual.

LABEL INFORMATION

NFPA CODES

Health 0 Fire Reactivity n Specific Hazard None

REVISION SUMMARY

Rev.

New

Prepared by:

Steven C. Dawson, CIH

Manager, Industrial Hygiene & Health

The information included in this document is taken from sources, or based on data believed to be reliable and given in good faith. No warranty is made, however, as to the absolute correctness of any of this information, or that additional or other measures may not be recuired under particular conditions. The data in this Material Safety Data Sheet relates only to the specific material designated and does not relate to use in combination with any other material or in any process Please refer to the OSHA Hazard Communication Standard 29 CFR 1910.1200 for guidance in the use of this information.



ATTACHMENT B

Material Safety Data Sheet for

MICROPLANAR™ CMP9001™

sold by EKC Technology, Inc. of Hayward, CA

MICROPLANAR™ CMP9001™

Tungsten CMP

Aqueous Alumina Slurry

EMERGENCY PHONE NUMBERS:

(800) 424-9300 EKC Technology, Inc. 2520 Barrington Court CHEMTREC

Hayward, CA 94545 24 Hours/day, 7 days/week (510) 784-9105

2. **COMPOSITION / INFORMATION ON INGREDIENTS**

Material Safety

WT.%

CAS Registry # Trade Secret

Proprietary

EXPOSURE LIMITS 8 hrs. TWA (mg/m³)

OSHA PEL

ACGIH TLV

DFG MAK

Alumina

Alumina

15

10

6

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Milky white suspension with no odor. May cause eye irritation and drying of the skin.

POTENTIAL HEALTH EFFECTS

INHALATION

No adverse effects known.

EYE CONTACT

May cause irritation.

SKIN CONTACT

May cause drying of the skin.

INGESTION

Not expected to be a hazard by this route.

TARGET ORGANS

Skin, eyes

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Overexposure may aggravate existing skin conditions.

CARCINOGENICITY

National Toxicology Program (NTP):

Not listed

IARC Monographs:

Not listed

OSHA:

Not listed

ACGIH:

Not listed



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3.

Name: WICKUPLANAK™ CMP9UU1™

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4. FIRST AID MEASURES

INHALATION

None required.

EYE CONTACT

Immediately flush eyes with water. Have eyes examined and treated by a physician.

SKIN CONTACT

Flush skin with water. If redness or irritation occurs, seek medical attention.

INGESTION

Flush mouth with water. Consult a physician.

NOTE TO PHYSICIAN

Treat symptomatically as indicated by the condition of the patient.

5. FIRE FIGHTING MEASURES

Flashpoint:

None

Method:

None

Flammable Limits in Air

Lower: None

% by volume

Upper: None

Autoignition Temperature:

None

Extinguishing Media:

None required.

UNUSUAL FIRE AND EXPLOSION HAZARDS

No special precautions are necessary.

FIRE FIGHTING INSTRUCTIONS

Non-flammable

FIRE FIGHTING EQUIPMENT

Non-flammable

HAZARDOUS COMBUSTION PRODUCTS

None

6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES

If material becomes dry, wet before removal. Contain spill with absorbent material. Transfer absorbent and other contaminated materials to a UN approved covered container for disposal. Consult with Federal, State, and local regulatory agencies to determine acceptable clean-up levels. Comply with Federal, State, and local regulations on reporting releases.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE

Do not store below 32°F (0°C).

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Name. MICKOPLANAK ... CMP9001 ...

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GENERAL

Keep in original closed containers.

Prevent skin and eye contact.

Thorough showering at the end of the work shift is strongly recommended.

Work clothes should be laundered daily.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION

RESPIRATORY PROTECTION

No respiratory protection is normally required. However, if material becomes dry and dust is present, use a NIOSH approved dust respirator.

PROTECTIVE CLOTHING

Prevent skin contact. Wear chemical resistant gloves.

EYE/FACE PROTECTION

Use safety glasses or chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:

Not available

pH:

8

Vapor Density: Specific Gravity: >1 (Air = 1) 1.13 @ 25°C Appearance: Boiling Point:

Milky-white 212°F (100°C)

Evaporation Rate: Solubility in Water:

Not available Insoluble solids Odor: Physical State: None Slurry

10. STABILITY AND REACTIVITY

GENERAL

This product is stable at normal temperatures and conditions of storage.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID

None have been identified.

HAZARDOUS DECOMPOSITION

None

HAZARDOUS POLYMERIZATION

Will not normally occur.

11. TOXICOLOGICAL INFORMATION

DATA FOR MICROPLANAR™ CMP9001™

INHALATION

No information is available.

EYE CONTACT

No information is available.

SKIN CONTACT

No information is available.

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 Name. WICKUPLANAK'" CWIP9UUT'"

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INGESTION

No information is available.

GENOTOXICITY

No information is available.

TARGET ORGANS

Eyes and skin

12. ECOLOGICAL INFORMATION

DATA FOR MICROPLANAR™ CMP9001™

FATE

Contains inert mineral product that is insoluble in water and settles easily.

AQUATIC TOXICITY

No information is available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Consult 40 CFR, Parts 261 and 268, State, and local regulations for guidance on disposal of this product. Incineration at a facility with appropriate permits or authorizations is the recommended method of disposal.

CONTAINER DISPOSAL

Empty containers retain product residue. Observe all hazard precautions. Do not distribute, make available, or reuse empty containers except for storage and shipment of original product. Remove all hazardous product residue, and puncture or otherwise destroy empty containers before disposal.

14. TRANSPORT INFORMATION

IMO/ICAO/IATA

Proper shipping name

Not regulated

Hazard Class

None

Identification number

None

Packing group

None

Labels required IMDG page number

None None

15. REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Components of this product are listed on the TSCA Inventory.

We recommend you contact local authorities to determine if there may be other local reporting requirements.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312

None

Hazard

Categories

Name. WICKOPLANAK ... CWIPSOU!

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313

This product contains no substances that are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (Comprehensive Response Compensation and Liability Act)

Not reportable.

We recommend that you contact local authorities to determine if there may be other local reporting requirements.

16. OTHER INFORMATION

Because the long-term human health effects from exposure to MICROPLANAR™ CMP9001™ have not been fully evaluated, exposure should be kept to the lowest level possible.

This material is for industrial use. Use only under the supervision of a technically qualified individual.

LABEL INFORMATION

NFPA CODES

Health 1
Fire 0
Reactivity 0
Specific Hazard None

REVISION SUMMARY

Rev. New

Initial MSDS

Prepared by:

Steven C. Dawson, CIH

Manager, Industrial Hygiene & Health

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